INDEX OF SUBJECTS

Agricultural Field Experiment (The): A Statistical Examination of Theory and Practice, by S. C. Pearce, reviewed by Lindsay Paterson, 179

Agricultural Insect Pests of the Tropics and their Control, by D. S. Hill, reviewed by H. F. van Emden, 267

Agricultural science, consistency and convenience in the choice of units (Monteith), 105

Arachis hypogaea, see Groundnut

Azospirillum inoculation, response of non-irrigated sorghum (Sarig, Kapulnik, Nur and Okon), 59

Barley and wheat in a semi-arid Mediterranean region compared with the performance of triticale (Hadjichristodoulou), 41

Bean, winged, studies on its potential as a multipurpose legume cover crop in tropical regions (Banerjee, Bagchi and Si), 297

Better Crops for Food, ed. by J. Nugent and M. O'Connor, reviewed by N. W. Simmonds, 269

Biological Agriculture and Horticulture, ed by R. D. Hodges, reviewed by G. W. Cooke, 96

Biological Nitrogen Fixation Technology for Tropical Agriculture, ed. by P. H. Graham and S. C. Harris, reviewed by K. E. Giller and J. M. Day, 98

Broad bean, the movement of labelled carbon products from source leaves during the growth and development of broad bean (Ismail), 311

Camellia sinensis, see Tea

Carbon Dioxide Review: 1982, ed. by W. C. Clark, reviewed by J. L. Monteith, 179

Carbon, the movement of labelled products from source leaves during the growth and development of broad bean (Ismail), 311

Cassava stomatal characteristics and their relation to gas exchange (El-Sharkawy, Cock and de Cadena), 67

Chemistry and Biochemistry of Legumes, ed. by S. K. Arora, reviewed by C. M. Duffus, 95

Cereal yields as affected by the water and air regime during germination (Haller), 235

Chickpea sensitivity to hot temperatures during the reproductive period (Summerfield, Hadley, Roberts, Minchin and Rawsthorne), 77

Cicer arietinum, see Chickpea

Clonal selection criteria in tea. I. The relation between mother bushes and their clonal derivatives for bush area, shoot number and yield (Nyirenda and Ridpath), 339

Common Diseases of Small Grain Cereals: A Guide to Identification, by F. J. Zillinsky, reviewed by J. H. Lennard, 98

Confounded experiments are simple, efficient and misunderstood (Mead), 185

Controlled Breeding in Farm Animals, by I. Gordon, reviewed by J. W. B. King, 99

Controlled environments as an adjunct to field research on lentils. III. Photoperiodic lighting and consequences for flowering (Summerfield, Muehlbauer and Roberts), 1

Cover crop, the potential of winged bean in tropical regions (Banerjee, Bagchi and Singh), 297

Diopsis thoracica, see Stalk-eyed fly

Dioscorea rotundata, see Guinea yam

Double cropping self-regenerating annual forage legumes with irrigated wheat or sorghum (Muldoon), 319

Dry matter production, light interception and water use of pearl millet grown on stored water as affected by planting density (Azam-Ali, Gregory and Monteith), 215

Dryland agriculture, an analysis of intercrop experiments (Ramanatha Chetty and Narayana Reddy), 31

Environments, controlled, as an adjunct to field research on lentils. III. Photoperiodic lighting and consequences for flowering (Summerfield, Muehlbauer and Roberts), 1

Experiments, confounded, are simple, efficient and misunderstood (Mead), 185

Flowering in lentils, consequences of photoperiodic lighting (Summerfield, Muehlbauer and Roberts), 1
Forage legumes, annual self-regenerating, for double cropping with irrigated wheat or sorghum (Muldoon), 319
Forest and savanna zones of Nigeria and the effect of iron on maize yields (Kayode), 335
Fream's Agriculture, ed. by C. R. W. Spedding, reviewed by W. J. M. Black, 269

Gas exchange in relation to stomatal characteristics among cassava cultivars (El-Sharkawy, Cock and de Cadena), 67
Germinating seed environment effects on crop yields. II. Effect of the water and air regime during germination on cereal yields (Haller), 235
Glossary of Agriculturual Terms Relating to Soils and Water (A), by B. Walker, reviewed by Alan Frost, 345
Grain legumes, their evolution. I. Mediterranean pulses (Smartt), 275
Groundnut genotypes, nitrogenase activity and nodule mass as predictors of their relative performance assessed by a number of characters (Arunachalam, Pungle, Dutta, Nambiar and Dart), 303
Growth and nutrient uptake of spring sorghum treated with transpiration suppressants in north-western India in relation to soil moisture regimes (Boobathi Babu and Singh), 161
Guidebook to Californian Agriculture (A), ed. by Ann Foley Scheuring, reviewed by K. R. M. Anthony, 345
Guinea yam, white, effects of sett size and spacing on tuber yield in the rainforest and savanna zones of Nigeria (Kayode), 53

Impact of Pest Management on Bees and Pollination (The), by E. Crane and P. Walker, reviewed by H. F. van Emden, 267
India, north-western, studies on transpiration suppressants on spring sorghum in relation to soil moisture regimes. I. Effect on yield and water use efficiency (Boobathi Babu and Singh), 151; II. Effect on growth and nutrient uptake (Boobathi Babu and Singh), 161
Inoculation of *Phaseolus vulgaris* with *Rhizobium*, an assessment of different techniques (Rawsthorne and Summerfield), 119
Inoculation with *Azospirillum*, response of non-irrigated sorghum (Sarig, Kapulnik, Nur and Okon), 59
Intercrop experiments in dryland agriculture, an analysis (Ramanatha Chetty and Narayana Reddy), 31
Intercropping of legumes and sorghum and the effects of nitrogen fertilization. I. Yield and nitrogen uptake by crops (Waghmare and Singh), 251; II. Residual effect on wheat (Waghmare and Singh), 261
Intercropping yield advantage assessed by the Staple Land Equivalent Ratio (Narayana Reddy and Ramanatha Chetty), 171
Intermediate Tropical Agriculture Series, by various authors, reviewed by N. W. Simmonds, 268
Iron, effect on maize yields in forest and savanna zones of Nigeria (Kayode), 335

Labelled carbon, its movement from source leaves during the growth and development of broad bean (Ismail), 311
Land Equivalent Ratio, a general form (Riley), 19
Land Equivalent Ratio, Staple, for assessing yield advantage from intercropping (Narayana Reddy and Ramanatha Chetty), 171
Leaf production in ramie and coated and uncoated urea (Sarkar, Sarkar and Sarkar), 245
Legume cover crop, the potential of winged bean in tropical regions (Banerjee, Bagchi and Singh), 297
Legumes, annual self-regenerating, as a forage for double cropping with irrigated wheat or sorghum (Muldoon), 319
Legumes, grain, their evolution. I. Mediterranean pulses (Smartt), 275
Legume-sorghum intercropping and the effects of nitrogen fertilization. I. Yield and nitrogen uptake by crops (Waghmare and Singh), 251; II. Residual effect on wheat (Waghmare and Singh), 261
Lens culinaris, *see* Lentils
Lentils, controlled environments as an adjunct to field research. III. Photoperiodic lighting and consequences for flowering (Summerfield, Muehlbauer and Roberts), 1
Light interception, dry matter production and water use of pearl millet grown on stored water as affected by planting

density (Azam-Ali, Gregory and Monteith), 215

Maize yields and the effect of iron in forest and savanna zones of Nigeria (Kayode), 335

Mediterranean pulses, their evolution (Smartt), 275

Mediterranean region, semi-arid, the performance of triticale in comparison with barley and wheat (Hadjichristodoulou), 41

Monitoring and Evaluation of Agriculture and Rural Development Projects, by Dennis J. Casley and Denis A. Lury, reviewed by K. R. M. Anthony, 97

Nigeria, forest and savanna zones and the effect of iron on maize yields (Kayode), 335

Nigeria, rainforest and savanna zones and the effects of sett size and spacing on tuber yield of white Guinea yam (Kayode), 53

Nitrogen Cycling in South-East Asian Wet Monsoonal Ecosystems, ed. by R. Wetslar, J. R. Simpson and T. Rosswall, reviewed by D. S. Powlson, 99

Nitrogen fertilization effects on sorghum-legume intercropping. I. Yield and nitrogen uptake by crops (Waghmare and Singh), 251; II. Residual effect on wheat (Waghmare and Singh), 261

Nitrogen Fixation. Volume 1, *Ecology*, Volume 2, *Rhizobium*, ed. by W. J. Broughton, reviewed by B. J. Miflin, 95

Nitrogen uptake and yield of sorghum-legume intercrops after nitrogen fertilization (Waghmare and Singh), 251

Nitrogenase activity and nodule mass as predictors of the relative performance of genotypes assessed by a number of characters in groundnut (Arunachalam, Pungle, Dutta, Nambiar and Dart), 303

Nodule mass and nitrogenase activity as predictors of the relative performance of genotypes assessed by a number of characters in groundnut (Arunachalam, Pungle, Dutta, Nambiar and Dart), 303

Nutrient uptake and growth of spring sorghum treated with transpiration suppressants in north-western India in relation to soil moisture regimes (Boobathi Babu and Singh), 161

Oil concentration in sesame seeds in relation to developmental stage, node position and capsule age (Saha and Bhargava), 129

Oilseed Crops, by E. A. Weiss, reviewed by E. S. Bunting, 267

Pearl millet and sorghum, a field technique to screen seedling emergence through soil crusts (Soman, Peacock and Bidinger), 327

Pearl millet water use and productivity grown on stored water as affected by planting density. I. Growth of roots and shoots (Azam-Ali, Gregory and Monteith), 203; II. Water use, light interception and dry matter production (Azam-Ali, Gregory and Monteith), 215

Pearl millet water use control (Squire, Gregory, Monteith, Russell and Singh), 135

Pennisetum typhoides, see Pearl millet

Phaseolus vulgaris inoculation with *Rhizobium*, an assessment of different techniques (Rawsthorne and Summerfield), 119

Photoperiodic lighting, consequences for flowering in lentils (Summerfield, Muehlbauer and Roberts), 1

Physiology and Biochemistry of Seeds, by J. D. Bewley and M. Black, reviewed by J. R. Thomson, 97

Plant Breeding Reviews, ed. by J. Janick, reviewed by F. J. W. England, 270

Plant Poisoning in Animals. A Bibliography from the World Literature, 1960–1979, by M. R. Hails and T. D. Crane, reviewed by J. A. Hammond, 345

Plant Research and Agroforestry, ed. by P. A. Huxley, reviewed by N. W. Simmonds, 346

Planting density effects on water use and productivity of pearl millet grown on stored water. I. Growth of roots and shoots (Azam-Ali, Gregory and Monteith), 203; II. Water use, light interception and dry matter production (Azam-Ali, Gregory and Monteith), 215

Plants and Microclimate, by Hamlyn G. Jones, reviewed by D. K. L. MacKerron, 346

Presentation of Data in Science, by L. Reynolds and D. Simmonds, reviewed by N. W. Simmonds, 268

Principles and Practice of Rice Production, by Surajit K. D. Datta, reviewed by K. R. M. Anthony, 96

Principles of Plant Biology for the Tropics, by A. R. Loveless, reviewed by J. E. Dale, 179

Productivity and water use of pearl millet grown on stored water as affected by planting density. I. Growth of roots and shoots (Azam-Ali, Gregory and Monteith), 203; II. Water use, light interception and dry matter production (Azam-Ali, Gregory and Monteith), 215

Pulses of the Mediterranean, their evolution (Smartt), 275

Rainforest and savanna zones of Nigeria and the effects of sett size and spacing on tuber yield of white Guinea yam (Kayode), 53

Ramie leaf production and coated and uncoated urea (Sarkar, Sarkar and Sarkar), 245

Residual effect on wheat of sorghum–legume intercrops fertilized with nitrogen (Waghmare and Singh), 261

Rhizobium inoculation of *Phaseolus vulgaris*, an assessment of different techniques (Rawsthorne and Summerfield), 119

Rice yield components as affected by stalk-eyed fly damage (Alghali and Osisanya), 225

Root and shoot growth of pearl millet grown on stored water as affected by planting density (Azam-Ali, Gregory and Monteith), 203

Savanna and forest zones of Nigeria and the effect of iron on maize yields (Kayode), 335

Savanna and rainforest zones of Nigeria and the effects of sett size and spacing on tuber yield of white Guinea yam (Kayode), 53

Seed environment at germination, effect on crop yields. II. Effect of the water and air regime during germination on cereal yields (Haller), 235

Seedling emergence of pearl millet and sorghum through soil crusts, a field screening technique (Soman, Peacock and Bidinger), 327

Seeds of sesame, their oil concentration in relation to developmental stage, node position and capsule age (Saha and Bhargava), 129

Sesame seeds, their oil concentration in relation to developmental stage, node position and capsule age (Saha and Bhargava), 129

Sett size and spacing effects on the tuber yield of white Guinea yam in the rainforest and savanna zones of Nigeria (Kayode), 53

Shoot and root growth of pearl millet grown on stored water as affected by planting density (Azam-Ali, Gregory and Monteith), 203

Soil crusts and a field technique to screen seedling emergence of pearl millet and sorghum through them (Soman, Peacock and Bidinger), 327

Soil moisture regimes and the effects of transpiration suppressants on spring sorghum in north-western India. I. Effect on yield and water use efficiency (Boobathi Babu and Singh), 151; II. Effect on growth and nutrient uptake (Boobathi Babu and Singh), 161

Sorghum and pearl millet, a field technique to screen seedling emergence through soil crusts (Soman, Peacock and Bidinger), 327

Sorghum bicolor, see Sorghum

Sorghum, non-irrigated, response to *Azospirillum* inoculation (Sarig, Kapulnik, Nur and Okon), 59

Sorghum or wheat, irrigated, and double cropping with annual self-regenerating legumes (Muldoon), 319

Sorghum, studies on transpiration suppressants in north-western India in relation to soil moisture regimes. I. Effect on yield and water use efficiency (Boobathi Babu and Singh), 151; II. Effect on growth and nutrient uptake (Boobathi Babu and Singh), 161

Sorghum–legume intercropping and the effects of nitrogen fertilization. I. Yield and nitrogen uptake by crops (Waghmare and Singh), 251; II. Residual effect on wheat (Waghmare and Singh), 261

Source leaves and the movement of carbon-labelled products during the growth and development of broad bean (Ismail), 311

Spacing and sett size effects on the tuber yield of white Guinea yam in the rainforest and savanna zones of Nigeria (Kayode), 53

Stalk-eyed fly damage, effects on yield components of rice (Alghali and Osisanya), 225

Stomatal characteristics among cassava cultivars and their relation to gas exchange (El-Sharkawy, Cock and de Cadena), 67

Tea clonal selection criteria. I. The relation between mother bushes and their clonal

derivatives for bush area, shoot number and yield (Nyirenda and Ridpath), 339
Temperatures, hot, sensitivity of chickpeas during the reproductive period (Summerfield, Hadley, Roberts, Minchin and Rawsthorne), 77
Transpiration suppressants on spring sorghum in north-western India in relation to soil moisture regimes. I. Effect on yield and water use efficiency (Boobathi Babu and Singh), 151; II. Effect on growth and nutrient uptake (Boobathi Babu and Singh), 161
Triticale performance in comparison with barley and wheat in a semi-arid Mediterranean region (Hadjichristodoulou), 41
Tropical Grassland Husbandry, by L. V. Crowder and H. R. Chheda, reviewed by N. R. Brockington, 98

Units for agricultural science, consistency and convenience in their choice (Monteith), 105
Urea, coated and uncoated, in ramie leaf production (Sarkar, Sarkar and Sarkar), 245

Water and air regime during germination, effects on cereal yields (Haller), 235
Water use and productivity of pearl millet grown on stored water as affected by planting density. I. Growth of roots and shoots (Azam-Ali, Gregory and Monteith), 203; II. Water use, light interception and dry matter production (Azam-Ali, Gregory and Monteith), 215
Water use control in pearl millet (Squire, Gregory, Monteith, Russell and Singh), 135
Water use efficiency and yield of spring sorghum treated with transpiration suppressants in north-western India in relation to soil moisture regimes (Boobathi Babu and Singh), 151
Water use, light interception and dry matter production of pearl millet grown on stored water as affected by planting density (Azam-Ali, Gregory and Monteith), 215
Wheat and barley in a semi-arid Mediterranean region compared with the performance of triticale (Hadjichristodoulou), 41
Wheat and the residual effect of sorghum–legume intercrops fertilized with nitrogen (Waghmare and Singh), 261
Wheat or sorghum, irrigated, and double cropping with annual self-regenerating legumes (Muldoon), 319
Winged bean, studies on its potential as a multipurpose legume cover crop in tropical regions (Banerjee, Bagchi and Si), 297

Yield advantage from intercropping assessed by the Staple Land Equivalent Ratio (Narayana Reddy and Ramanatha Chetty), 171
Yield and nitrogen uptake by sorghum–legume intercrops after nitrogen fertilization (Waghmare and Singh), 251
Yield and water use efficiency of spring sorghum treated with transpiration suppressants in north-western India in relation to soil moisture regimes (Boobathi Babu and Singh), 151
Yield components of rice as affected by stalk-eyed fly damage (Alghali and Osisanya), 225
Yield of Cereals (The), ed. by D. W. Wright, reviewed by N. W. Simmonds, 269
Yield of crops as affected by the germinating seed environment. II. Effect of the water and air regime during germination on cereal yields (Haller), 235
Yield of white Guinea yam tubers in the rainforest and savanna zones of Nigeria as affected by sett size and spacing (Kayode), 53
Yield, shoot number and bush area of tea, the relation between mother bushes and their clonal derivates (Nyirenda and Ridpath), 339
Yields of maize and the effect of iron in forest and savanna zones of Nigeria (Kayode), 335

INDEX OF AUTHORS

Alghali, A. M. and Osisanya, E. O. Effect of damage by stalk-eyed fly (*Diopsis thoracica*) on yield components of rice, 225

Anthony, K. R. M. Review of *A Guidebook to Californian Agriculture*, ed. by Ann Foley Scheuring, 345

Anthony, K. R. M. Review of *Monitoring and Evaluation of Agriculture and Rural Development Projects*, by Dennis J. Casley and Denis A. Lury, 97

Anthony, K. R. M. Review of *Principles and Practice of Rice Production*, by Surajit K. D. Datta, 96

Arunachalam, V., Pungle, G. D., Dutta, M., Nambiar, P. T. C. and Dart, P. J. Efficiency of nitrogenase activity and nodule mass in predicting the relative performance of genotypes assessed by a number of characters in groundnut (*Arachis hypogaea*), 303

Azam-Ali, S. N., Gregory, P. J. and Monteith, J. L. Effects of planting density on water use and productivity of pearl millet (*Pennisetum typhoides*) grown on stored water. I. Growth of roots and shoots, 203

Azam-Ali, S. N., Gregory, P. J. and Monteith, J. L. Effects of planting density on water use and productivity of pearl millet (*Pennisetum typhoides*) grown on stored water. II. Water use, light interception and dry matter production, 215

Bagchi, D. K., *see* Banerjee, Anjana

Banerjee, Anjana, Bagchi, D. K. and Si, L. K. Studies on the potential of winged bean as a multipurpose legume cover crop in tropical regions, 297

Bhargava, S. C., *see* Saha S. N.

Bidinger, F. R., *see* Soman, P.

Black, W. J. M. Review of *Fream's Agriculture*, ed. by C. R. W. Spedding, 269

Boobathi Babu, D. and Singh, S. P. Studies on transpiration suppressants on spring sorghum in north-western India in relation to soil moisture regimes. I. Effect on yield and water use efficiency, 151

Boobathi Babu, D. and Singh, S. P. Studies on transpiration suppressants on spring sorghum in north-western India in relation to soil moisture regimes. II. Effect on growth and nutrient uptake, 161

Brockington, N. R. Review of *Tropical Grassland Husbandry*, by L. V. Crowder and H. R. Chheda, 98

Bunting, E. S. Review of *Oilseed Crops*, by E. A. Weiss, 267

Cock, James H., *see* El-Sharkawy, Mabrouk A.

Cooke, G. W. Review of *Biological Agriculture and Horticulture*, ed. by R. D. Hodges, 96

Dale, J. E. Review of *Principles of Plant Biology for the Tropics*, by A. R. Loveless, 179

Dart, P. J., *see* Arunachalam, V.

Day, J. M., *see* Giller, K. E.

De Cadena, Giovanna, *see* El-Sharkawy, Mabrouk A.

Duffus, C. M. Review of *Chemistry and Biochemistry of Legumes*, ed. by S. K. Arora, 95

Dutta, M., *see* Arunachalam, V.

El-Sharkawy, Mabrouk A., Cock, James H. and de Cadena, Giovanna. Stomatal characteristics among cassava cultivars and their relation to gas exchange, 67

England, F. J. W. Review of *Plant Breeding Reviews*, ed. by J. Janick, 270

Frost, Alan. Review of *A Glossary of Agricultural Terms Relating to Soils and Water*, by B. Walker, 345

Giller, K. E. and Day, J. M. Review of *Biological Nitrogen Fixation Technology for Tropical Agriculture*, ed. by P. H. Graham and S. C. Harris, 98

Gregory, P. J., *see* Azam-Ali, S. N.

Gregory, P. J., *see* Squire, G. R.

Hadjichristodoulou, A. Performance of triticale in comparison with barley and wheat in a semi-arid Mediterranean region, 41

Hadley, P., *see* Summerfield, R. J.

Haller, E. Effect of the germinating seed environment on crop yields. II. Effect of the water and air regime during germination on cereal yields, 235

Hammond, J. A. Review of *Plant Poisoning in Animals. A Bibliography from the World Literature, 1960–1979*, by M. R. Hails and T. D. Crane, 345

Ismail, A. M. A. The movement of ^{14}-C labelled products from source leaves during the growth and development of broad bean, 311

Kapulnik, Y., *see* Sarig, S.
Kayode, G. O. Effect of iron on maize yields in forest and savanna zones of Nigeria, 335
Kayode, G. O. Effects of sett size and spacing on tuber yield of white Guinea yam (*Dioscorea rotundata*) in the rainforest and savanna zones of Nigeria, 53
King, J. W. B. Review of *Controlled Breeding in Farm Animals*, by I. Gordon, 99

Lennard, J. H. Review of *Common Diseases of Small Grain Cereals: A Guide to Identification*, by F. J. Zillinsky, 98

MacKerron, D. K. L. Review of *Plants and Microclimate*, by Hamlyn G. Jones, 346
Mead, R. Confounded experiments are simple, efficient and misunderstood, 185
Miflin, B. J. Review of *Nitrogen Fixation.* Volume 1, *Ecology*, Volume 2, *Rhizobium*, ed. by W. J. Broughton, 95
Minchin, F. R., *see* Summerfield, R. J.
Monteith, J. L. Consistency and convenience in the choice of units for agricultural science, 105
Monteith, J. L. Review of *Carbon Dioxide Review: 1982*, ed. by W. C. Clark, 179
Monteith, J. L., *see* Azam-Ali, S. N.
Monteith, J. L., *see* Squire, G. R.
Muehlbauer, F. J., *see* Summerfield, R. J.
Muldoon, D. K. Self-regenerating annual forage legumes for double cropping with irrigated wheat or sorghum, 319

Nambiar, P. T. C., *see* Arunachalam, V.
Narayana Reddy, M., *see* Ramanatha Chetty, C. K.
Narayana Reddy, M. and Ramanatha Chetty, C. K. Staple Land Equivalent Ratio for assessing yield advantages from intercropping, 171
Nur, I., *see* Sarig, S.
Nyirenda, H. E. and Ridpath, V. E. T. Criteria for clonal selection in tea (*Camellia sinensis*). I. The relation between mother bushes and their clonal derivatives for bush area, shoot number and yield, 339

Okon, Y., *see* Sarig, S.
Osisanya, E. O., *see* Alghali, A. M.

Paterson, Lindsay. Review of *The Agricultural Field Experiment: A Statistical Examination of Theory and Practice*, by S. C. Pearce, 179
Peacock, J. M., *see* Soman, P.
Powlson, D. S. Review of *Nitrogen Cycling in South-East Asian Wet Monsoonal Ecosystems*, ed. by R. Wetslar, J. R. Simpson and T. Rosswall, 99
Pungle, G. D., *see* Arunachalam, V.

Ramanatha Chetty, C. K., *see* Narayana Reddy, M.
Ramanatha Chetty, C. K. and Narayana Reddy, M. Analysis of intercrop experiments in dryland agriculture, 31
Rawsthorne, S., *see* Summerfield, R. J.
Rawsthorne, S. and Summerfield, R. J. An assessment of different techniques for inoculating *Phaseolus vulgaris* with *Rhizobium*, 119
Ridpath, V. E. T., *see* Nyirenda, H. E.
Riley, Janet. A general form of the 'Land Equivalent Ratio', 19
Roberts, E. H., *see* Summerfield, R. J.
Russell, M. B., *see* Squire, G. R.

Saha, S. N. and Bhargava, S. C. An evaluation of the oil concentration in sesame seeds in relation to developmental stage, node position and capsule age, 129
Sarig, S., Kapulnik, Y., Nur, I. and Okon, Y. Response of non-irrigated *Sorghum bicolor* to *Azospirillum* inoculation, 59
Sarkar, Anupam, *see* Sarkar, Apurba
Sarkar, Apurba, Sarkar, Gitasree and Sarkar, Anupam. Coated and uncoated urea in ramie leaf production, 245
Sarkar, Gitasree, *see* Sarkar, Apurba
Si, L. K., *see* Banerjee, Anjana
Simonds, N. W. Review of *Better Crops for Food*, ed. by J. Nugent and M. O'Connor, 269
Simmonds, N. W. Review of *Plant Research and Agroforestry*, ed. by P. A. Huxley, 346
Simmonds, N. W. Review of *Presentation of Data in Science*, by L. Reynolds and D. Simmonds, 268

Simmonds, N. W. Review of the *Intermediate Tropical Agriculture Series*, by various authors, 268

Simmonds, N. W. Review of *The Yield of Cereals*, ed. by D. W. Wright, 269

Singh, Piara, *see* Squire, G. R.

Singh, S. P., *see* Boobathi Babu, D.

Singh, S. P., *see* Waghmare, A. B.

Smartt, J. Evolution of grain legumes. I. Mediterranean pulses, 275

Soman, P., Peacock, J. M. and Bidinger, F. R. A field technique to screen seedling emergence of pearl millet and sorghum through soil crusts, 327

Squire, G. R., Gregory, P. J., Monteith, J. L., Russell, M. B. and Singh, Piara. Control of water use by pearl millet (*Pennisetum typhoides*), 135

Summerfield, R. J., *see* Rawsthorne, S.

Summerfield, R. J., Hadley, P., Roberts, E. H., Minchin, F. R. and Rawsthorne, S. Sensitivity of chickpeas (*Cicer arietinum*) to hot temperatures during the reproductive period, 77

Summerfield, R. J., Muehlbauer, F. J. and Roberts, E. H. Controlled environments as an adjunct to field research on lentils (*Lens culinaris*). III. Photoperiodic lighting and consequences for flowering, 1

Thomson, J. R. Review of *Physiology and Biochemistry of Seeds*, by J. D. Bewley and M. Black, 97

Van Emden, H. F. Review of *Agricultural Insect Pests of the Tropics and their Control*, by D. S. Hill, 267

Van Emden, H. F. Review of *The Impact of Pest Management on Bees and Pollination*, by E. Crane and P. Walker, 267

Waghmare, A. B. and Singh, S. P. Sorghum–legume intercropping and the effects of nitrogen fertilization. I. Yield and nitrogen uptake by crops, 251

Waghmare, A. B. and Singh, S. P. Sorghum–legume intercropping and the effects of nitrogen fertilization. II. Residual effect on wheat, 261